## **APPENDIX**

**Green Building Definitions** 

**Recycled Materials/Products Websites** 

**Other Related Websites** 

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## **GREEN BUILDING DEFINITIONS:**

A Green Building: Optimizes efficiencies in resource management and operational performance;

minimizes risk to human health and the environment.

Bio-based Product: A commercial or industrial product (other than food or feed) that is produced from

biological products or renewable domestic agricultural (plant, animal, and marine)

or forestry materials.

**Environmental Management** 

Systems:

The part of an overall management system that includes organizational structure,

planning activities, responsibilities, practices, procedures, processes and

resources for developing, implementing, achieving, reviewing and maintaining the

environmental policy.

Environmentally Preferable: Products or services that have less undesirable impact on human health and the

environment than competing products or services which serve the same purpose.

This comparison may consider acquisition of raw materials, production,

manufacturing, packaging, distribution, reuse, operation, maintenance or disposal

of the product or service.

Environmentally

Responsible Materials:

Products manufactured with highly efficient non-toxic processes creating low-

embodied-energy products and materials while maintaining durability and strength.

Hazardous Materials: Existing or new materials exhibiting ignitability, corrosivity, toxicity or reactivity

characteristics which create or cause environmental or health hazards, and

requiring specific disposal procedures.

High Efficiency Equipment: Equipment and distribution systems that produce fewer pollutants and offer both

economic and environmental advantages over their conventional counterparts.

Life Cycle Cost: The amortized annual cost of a product, including capital costs, installation costs,

operating costs, maintenance costs and disposal costs spread across the lifetime

of the product.

Life Cycle Assessment: The comprehensive examination of a product's environmental and economic

aspects and potential impacts throughout its lifetime, including raw material

extraction, transportation, manufacturing, use and disposal.

Locally Produced: When feasible, specify use of Indiana based manufacturers of recycled products

and materials to promote the recycling industry within our State and to save

transportation costs and energy use.

Low-Embodied Energy: Materials and/ or products manufactured with lower energy demand processes.

Heavily processed or manufactured products are more energy intense and wasteful. As long as performance and durability isn't sacrificed, select low-

embodied-energy materials.

Off-gassing V.O.C.: Chemical compounds common in and emitted by building products exposed to the

air over time can contribute to the formation of smog, can affect workers and

occupants health, and contribute to ground level pollution.

Pollution Prevention: Practices that reduce or eliminate the creation of pollutants through increased

efficiency in the use of raw materials, energy, water or other resources; or

protection of natural resources by conservation.

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Recycled Content: Building materials or products manufactured which contain recycled materials. The

percentage of recycled content varies considerably according to type of product

and manufacturer.

Reduced Energy Use

Technologies: Equipment, appliances and/ or furnishings manufactured utilizing highly efficient

energy consumption systems resulting in overall less pollutants during operation.

Renewable Energy

Sources: Energy created or derived from materials or fuels, which are regenerative or

recurring. (Passive solar, daylighting, natural cooling, and photovoltaics)

Resource Reduction: Minimizing the number of suppliers or distributors supplying materials and products

reduces transportation expense and energy use.

Site Resource Evaluation: Identification of natural site characteristics and amenities that shall be used to

guide or enhance project design development. (Solar access, sun orientation,

soils, vegetation, water resources, etc.)

Sustainability Terminology: As defined in ASTM E2114-00a – Standard Terminology for Sustainability relative

to the performance of buildings. Available from ASTM (American Society for

Testing and Materials): Internet: www.astm.org

Sustainable Design: Optimizing the use of space through design to minimize resource use during

construction and during the operations life cycle.

Waste Reduction: Preventing or decreasing the amount of waste being generated. Techniques

include waste prevention, recycling and purchasing recycled and environmentally

preferable products.

Water Efficient Fixtures: Specify water-conserving toilets, showerheads, faucet aerators, reduce hot water

usage and minimize demand on sewer treatment plants and septic systems.

## Recycled Materials/Products Websites (in order of perceived usefulness)

www.buildinggreen.com/products/productlist.html - Environmental Building News, product reviews.

<u>www.state.in.us/doc/energy/recycle\_productlist.html</u> – Indiana Department of Commerce, listing of recycled products.

www.terragreenceramics.com - Indiana porcelain tile of recycled glass.

<u>www.wabashvalley.com</u> – Indiana mfgr. Includes recycled content.

www.cimmb.ca.gov/rcp - Listing of products by California integrated Waste Management.

http://brba.nrc-recycle.org/Buyers.htm - Buy Recycled Business Alliance; download .pdf version.

Various Internet search engines – Can utilize complete listing at: <a href="www.loc.gov/global/explore.html">www.loc.gov/global/explore.html</a> (library of Congress).

## Websites Oriented to Green Buildings and Sustainable Design.

www.energystar.gov - Energy Star Building Program; U.S. Environmental Protection Agency (EPA)

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<u>www.eren.doe.gov/buildings/technology\_roadmaps</u> – U.S. Department of Energy: Office of Building Technology, State and Local Programs.

www.wbdg.org - Whole Building Design Guide (Federal)

<u>www.advancedbuildings.org</u> – Advanced Building Technologies and Practices.

<u>http://www1.arch.hku.hk/research/BEER/ststain.htm</u> – Sustainable Architecture and Building Design (vast site of references).

<u>www.pnl.gov/doe</u> sustainable design – (download roadmap .pdf) – U.S. Department of Energy, Pacific Northwest Laboratory.

<u>www.Tjcog.dst.nc.us/hyprlink.htm</u> – Triangle Council of Governments, N.C. – list of websites related to sustainable design.

<a href="http://eetd.lbl.gov">http://eetd.lbl.gov</a> – Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division<a href="http://eetd.lbl.gov">www.smartarch.nl</a> – Internet site for international sources.

www.eeba.org/sites/green.htm - Energy and Environmental Building Association and links to various sites.

www.e-architect.com/pia/cote/houe.asp - American Institute of Architects, Committee and the Environment.

www.greendesign.net/gbrc/index.html - Green Building Resource Center - click on Web Resources- extensive.

www.advancedbuildings.org - Extensive Canadian site.

<u>www.energy.WSU.edu/index/building.cfm</u> – Washington State University references site.

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